

M 4.1, 27 km SSE of Melstone, Montana

Origin Time: 2021-07-06 11:44:40 UTC (Tue 05:44:40 local)

Location: 46.3617° N 107.7490° W Depth: 10.0 km

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

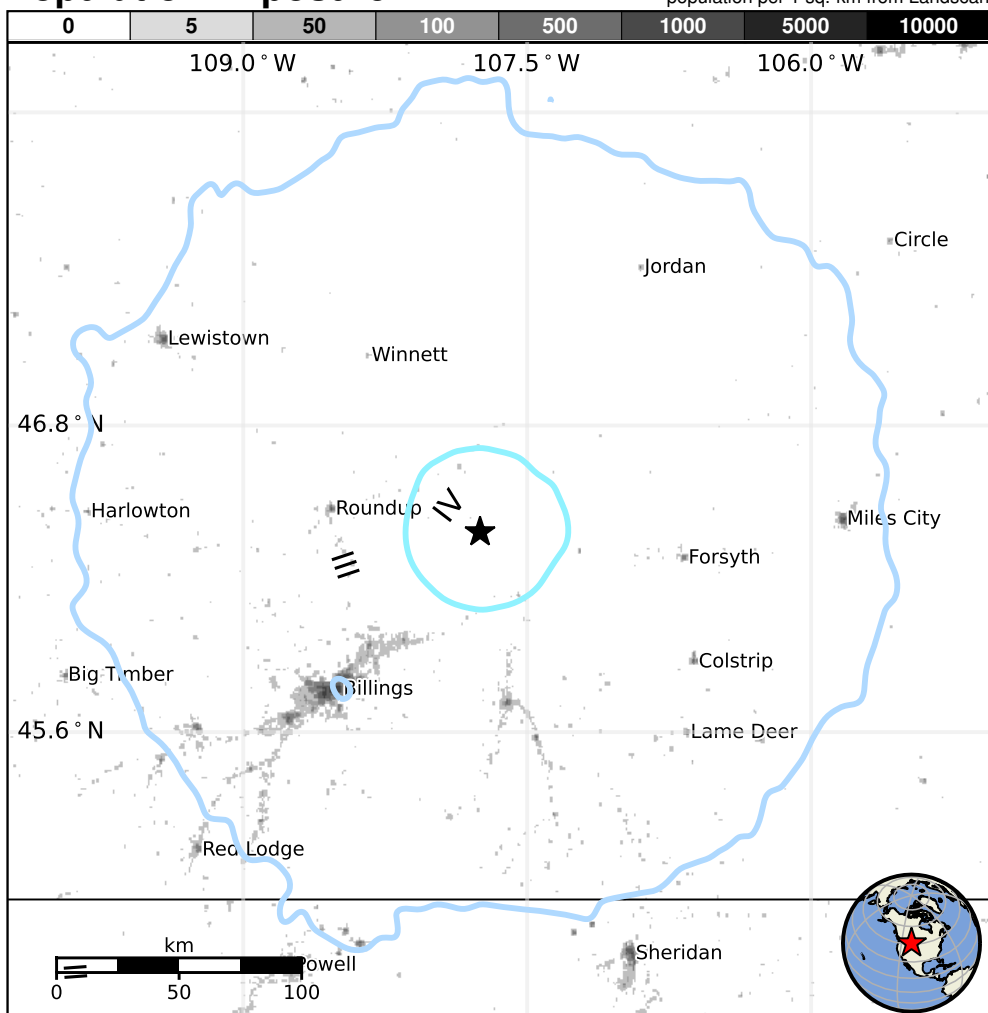


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	305k	1k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1975-06-30	299	6.1	VI(2k)	—
2005-07-26	388	5.6	VI(7k)	—

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Hysham	0
III	Hardin	4k
III	Roundup	2k
III	Winnett	0
III	Crow Agency	2k
III	Colstrip	2k
III	Laurel	7k
III	Miles City	8k
III	Lockwood	7k
II	Billings	104k
II	Sheridan	17k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ej2y#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000ej2y